FUNCTIONAL AREA 14

Telecommunications (TEL)

Incumbents in this functional area provide expertise and general consultation to both internal and external clients on a wide array of issues related to telecommunications systems.

The ITS will provide support to management in the development of telecommunications systems/services, policies and long range plans. They are expected to have the knowledge and ability to acquire, install, equip, maintain, and operate new or existing business telecommunications systems and services.

Incumbents assess strategic telecommunications needs and requirements; develop strategic and tactical policies commensurate with business and system requirements, recommend industry standards, service level agreements, and telecommunications solutions; provide expert advice in the selection of telecommunications equipment including building or campus area wire/wireless facilities; operate, monitor and maintain telecommunications systems and/or oversee contract vendors who perform those functions.

They perform the feasibility analysis, implementation, and evaluation of alternative telecommunications solutions; conduct and/or oversee system design, installation and testing, implementation oversight, and administration activities. They also develop the initial or upgrade designs of telecommunications wiring plans for building or campus area networks, including detailed configuration plans to accommodate facility floor plans, hardware requirements and telecommunications equipment/housing.

Telecommunications	Assistant Information Technology Specialist	Information Technology Specialist I	Information Technology Specialist II	Information Technology Specialist III
Knowledge of:				
Basic processes for budgets, procurements, and contracting	X	X	X	X
Basic fundamentals of telecommunications design and theory	X	X	X	X
Telecommunications documentation methods and procedures	X	X	X	X
Telecommunications systems and services		X	X	X
Telecommunications systems and client support		X	X	X
Contracting methods, requirements, and procedures for telecommunications acquisitions		X	X	X
Methods and practices to prepare the telecommunications organization to meet the business needs for service delivery		X	X	X

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Telecommunications test management		X	X	X
techniques including principles, methods				
and tools for the effective coordination of				
the testing process and execution of tests				
through the lifecycle of development plans				
Telecommunications principles and		X	X	X
practices				
Principles and methods of systems analysis		X	X	X
New and emerging telecommunications		X	X	X
and/or industry trends				
Application of telecommunications to			X	X
support business goals and objectives and				
principles of organizational financial		A		
management as it relates to		A		
telecommunications project management				
Cost-benefit analysis principles and			X	X
methods				
Current trends for telecommunications		*	X	X
strategic planning				
Methods for researching and analyzing			X	X
external telecommunications products and	4			
services to determine their potential for	· ·			
meeting organizational standards and				
business needs				
Methods, metrics, tools and techniques of			X	X
telecommunications Business Process	A			
Reengineering (such as relational data				
modeling, functional business models, and				
process modeling)				
Methods, techniques, and tools used for		4	X	X
risk assessment and mitigation of risk to				
telecommunications projects		P		
Application of telecommunications			X	X
principles, methods, techniques and tools				
for the effective management of projects				
from initiation through to implementation				
(such as telecommunications project				
initiation and planning, work breakdown				
schedules for telecommunications projects,				
telecommunications project schedule				
development, critical path analysis, project				
direction & control, earned value analysis,				
project close-out activities & post-				
implementation close-out activities)				
Telecommunications requirement analysis			X	X
principles and methods				
Telecommunications quality assurance			X	X
principles				
Methods, tools and techniques of			X	X
performance management/measurement				
Telecommunications systems security			X	X
methods and procedures				
Telecommunications performance				X
monitoring principles and methods				
Principles of organizational development				X
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and telecommunications change				
management practices				
Complex converging technologies and				X
their impact on telecommunications				
systems and projects				
Ability to:				
Assist on a wide array of issues related to	X	X	X	X
feasibility analysis, implementation, and				
evaluation of telecommunications solutions				
to business and administrative processes.				
Assist in developing or develop	X	X	X	X
independently, the technical solutions		4		
relative to the development of		A		
telecommunications contracts or revisions				
Under guidance or independently, write	X	X	X	X
telecommunications specifications				
Assist in or perform the monitoring of the	X	X	X	X
implementation of telecommunications				
systems to meet applicable requirements		1		
Assist in or perform the preparation of	X	x	X	X
telecommunications RFPs and respond to	21		21	71
telecommunications proposals				
Assist with or perform the identifying and	X	X	X	X
defining of business or technical	75	A	71	Λ
requirements applied to the design,	44			
development, implementation,				
management, and support of systems and				
networks				
Assist with or perform the identifying and	X	X	X	X
specifying of business requirements for	21	71	21	71
new or enhanced systems and develop		0		
basic system specifications				
Assist with or perform the preparation,	X	X	X	X
justification, and/or administration of an	73	A	A	A
organizational telecommunications budget				
Assist with or perform the monitoring of	X	X	X	X
telecommunications vendor performance to	Λ	Λ	Λ	Λ
contract (such as analyze Statement of				
Work, define success criteria, and test				
product/system deliverables)				
Assist with or perform the	X	X	X	X
evaluation/testing and optimization of the	A	A	Λ	Λ
functionality of communications systems,				
networks and data				
Work with customers to resolve	X	X	X	X
telecommunications technical and	Λ	Λ	Λ	Λ
operational problems	v	v	v	v
Coordinate and consult with system	X	X	X	X
vendors		V	V	V
Evaluate and/or recommend adoption of		X	X	X
new or enhanced approaches to delivering				
telecommunications services		V	V	V
Identify and define business or technical		X	X	X
requirements applied to the design,				

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development, implementation,				
management, and support of systems and				
networks				
Determine, evaluate and categorize		X	X	X
potential impacts of telecommunications				
project risks				
Develop telecommunications tactical plans		X	X	X
to meet business enterprise goals and				
objectives				
Establish and communicate		X	X	X
telecommunications project goals and				
objectives				
Estimate and plan telecommunications		4	X	X
project timelines and milestones				
Monitor telecommunications progress		X	X	X
according to plan and administer				
telecommunications tasks and schedules				
Interpret telecommunications policies,		X	X	X
standards, and guidelines	A			
Coordinate and/or lead multiple		X	X	X
telecommunications projects	4			
Assist in the review or design of		X	X	X
building/campus wiring plan				
Review detailed building/Campus wiring		X	X	X
plans including requirements for hardware,				
wiring services, and security of facilities	A TON			
Develop technical solutions relative to the			X	X
development of telecommunications				
contracts or revisions				
Provide advice and guidance on a wide			X	X
range and variety of complex				
Telecommunications issues		p .		
Represent the organization in interactions			X	X
with other organizations				
Monitor the implementation of			X	X
telecommunications systems to meet				
applicable requirements				
Prepare telecommunications RFPs and			X	X
respond to telecommunications proposals				
Monitor and evaluate telecommunications			X	X
vendor performance to contract (such as				
analyze Statement of Work, define success				
criteria, and test product/system				
deliverables)				
Evaluate telecommunications proposals			X	X
and select vendors, products or services				
Manage change and its effects on			X	X
telecommunications project resources				
Monitor and evaluate the progress and			X	X
outcomes of telecommunications				
operational plans				
Evaluate/test and optimize the functionality			X	X
of communications systems, networks and				
data				
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Design detailed building/Campus wiring plans including requirements for hardware, wiring services, and security of facilities Serve as consultant and subject matter expert to executive management and outside agencies on a wide range of issues pertaining to telecommunications planning, policy analysis and articulation, and project implementation and administration Lead the development of telecommunications strategies to support an organization's business goals, and plan the implementation of those strategies Negotiate terms of telecommunications vendor contracts, including contract revisions Define and utilize telecommunications contract penalties Administer and configure computerized telecommunication systems Demonstrate an advanced level of administrative and technical knowledge, along with the leadership ability required to allow administration of the largest and most complex telecommunications solutions throughout the entire life cycle Obtain certification in Telecommunications building wiring by a	Prepare, justify, and/or administer an			X	X
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Assistant Information Technology Specialist, (Telecommunications)

Incumbents assist more experienced telecommunications staff in developing, maintaining, and upgrading telecommunications systems in conjunction with others, including contractors and customers. This includes collection and analysis of business and technical requirements for development of a telecommunications system/service solution and operational monitoring of telecommunications systems.

Information Technology Specialist I, (Telecommunications)

Incumbents apply an understanding of telecommunications design and theory to assist with identifying and defining business or technical requirements applied to the design, development, implementation, management, and support of telecommunications systems and networks. This includes assisting with the evaluation/testing and optimization of networks, communications systems, telecommunications facilities, and data, and working with contractors who provide these systems and services.

Information Technology Specialist II, (Telecommunications)

Incumbents demonstrate proficiency in business and technical telecommunications competencies, with a specialization in telecommunications systems, services, client support, principles and practices including principles and methods of systems analysis. The ITS II applies knowledge of the organization's technology and business infrastructure to effectively perform the tasks or oversee contractors hired to perform the tasks that provide the full range of telecommunications systems design, acquisition, implementation, testing, acceptance, maintenance, and strategic planning for system replacement.

Information Technology Specialist III Range, A (Telecommunications)

Incumbents demonstrate expertise in the most complex business and technical telecommunications issues or technologies and participate in strategic and tactical planning and project management. The ITS III acts as a lead and advises other experts throughout the organization or in other organizations on a variety of situations and issues that involve applying or adapting new IT theories, concepts, principles, standards, methods, or practices related to the telecommunications field.



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